

What is claimed is:

1. A network error display apparatus in an IEEE 1394 network, said network error display apparatus comprising:

first detection means for detecting an error of a loop state of said network;

second detection means for detecting a link state for said network;

third detection means for detecting an error which occurs in case where such a state that there is no link for said network is detected by said second detection means;

fourth detection means for detecting an error which occurs in case where such a state that there is a link for said network is detected by said second detection means;

storage means for storing respective messages indicating error states detected respectively by said detection means;

display means for displaying a message for a user; and

control means for reading out a message which indicates error states from said storage means based on error states detected respectively by said plurality of detection means, and displaying the message on said display means.

2. The network error display apparatus according to claim 1, wherein said third detection means detects at least such a state that communication with another apparatus via the network is impossible, and such a state that a band required for data transmission cannot be secured on said network.

3. The network error display apparatus according to claim 1, wherein said fourth detection means detects at least such a state that a signal cannot be obtained from the network,

and such a state that a signal on data is not a predetermined signal.

4. The network error display apparatus according to claim 1, wherein

said network error display apparatus further comprises fifth detection means for detecting connection of a new apparatus to said network or cancel of connection of an apparatus from said network, and

a state of the network detected by said fifth detection means is displayed.

5. The network error display apparatus according to claim 1, wherein said plurality of control means reads out a message from said storage means to thereby display the message on said display means based on priority order for states of said network detected by the plurality of detection means.

6. An error detection display method in a network using IEEE 1394, comprising the steps of:

detecting a loop state error of said network, and, in case where said loop state error is detected, displaying said loop state error;

detecting a connection state with another apparatus via said network;

in case where connection is detected in said connection state detecting step, detecting an error of said network, and in case where an error of said network is detected, displaying an error message based on detected error contents; and

in case where connection is not detected in said connection state detecting step, detecting an error of said

network, and in case where an error of the network is detected,
displaying an error message based on detected error contents.